

Towards EIC reference detector: discussion Nov .19.

Can we summarize in one table things that we want to clarify with MC? At the end we'll need only first three columns (which probably takes few years to fill)? At the start we need at least two additional columns (4) and (5). If we are going to discuss something like that, then the questions we need to talk are:

what we can put in this table now?

what our plan to fill blank spots?

how to start the iterative process to produce final table?

1. – list of subsystem we want to see in the detector in Day 1?
2. - list of “golden” measurements, with the requirements for every sub-system to carry this particular measurement?
3. – geometry parameters?
4. – how we want to start iterative process?
5. – how proposed R&D related to the above?

1	2	3	4	5
Subsystem	Req. Measurement (X)	Geometry	First Attempt, Settings	R&D Goal
Central EMcal	a)Energy Reso. b)PositionReso. c) Dynamic Range d) Cluster separation e) ? f) ?	1.Inner Radius 2. Outer Radius 3. Length 4. Granularity 5.Projective or not 6. Compensated or not	a) 10%/sqrt(E) b) X(mm)/sqrt(E) c) 50 MeV-30 GeV d) Y degrees e) Noise 6 MeV	(a),(c),(e),(5)
Tracker				
Name you favorite.				

Is this table sufficient? What you want to see there?

Simulation Workshop, it will be good to have brief final report which will be somehow presented to committee. What we want to see in this report?

1. Did we come up with the list of tools/frameworks etc. which will be used to carry simulations for EIC?
2. Who will be sort of a “coordinator” of the reference detector model?
3. How subsystems should interact with (2) – (for example, we are requesting funds for visiting postdoc, what would be most efficient way to use this manpower to build model of barrel EM cal)?
4. Do we need to ask someone to make a joint presentation at coming R&D meeting to update committee what is our plan to move forward with simulation?
5. Etc.